in this Journal. A great part of them will, we are confident, maintain their ground with, it may be, a few modifications. Others mavoidably excite our secpticism; but, until arguments are adduced ou the other side, founded on something like cqually cautious and intelligent study, Mr. Babington has a fair right to claim a strong provisional authority. If any one starts, as assuredly he ought to do, at being told that Aretium majus and minus constitute fire species, we can only counsel patience and renewed observation, A large proportion of the novelties occur in the genus Hieracium, where the pains bestowed by Mr. Backhouse on the cultivation of doubtful forms supply an excellent check on hasty conclusions in either direction. We should not omit to notice the arrangement of the Grasses, which has been greatly improved, chiefly from Fries and Andersson.

## Species introduced or separated in the 4th edition.

Ranunculus trichophyllus, Chair.
R. Drouetii, F. Schultz?
R. Baudotii, Godr.
R. floribundus, Bab.
R. peltatus, Fr .

Polygala austriaca, Cr . [Sagina densa, Jord.] Hypericum anglicum, Bert. Rulus pampinosus, Lees.
Epilobium rosmarinifolium,
Haenke.
E. anagallidifolium, Lam.

Galium montanum, Vill.
G. commutatum, Jord.
G. clongatum, Presl.

Arctium tomentosum, Pers.
A. intermedium, Lange.
A. pubens, Bab.

Hieracium holosericeum, Backh.
H. eximium, Backh.
II. calenduliflorum, Backh.
II. gracilentum, Backh.
II. globosum, Backh.

Hieracium senescens, Backh.
H. lasiophyllum, Koch.
II. Gibsoni, Backh.
II. argenteum, Fr.
II. nitidum, Backh.
II. aggregatum, Backh.
H. stelligerum, Froel.

Thymus serpyllum, $L$.
$\dagger$ Salix acutifolia, Hilld.
Orchis inearnata, $L$.
Epipogium aphyllum, $S w$.
Arum italicum, Nill.
[Potamogeton sparganiifolius, Laest.?]
[Eleocharis Watsoni, Bab.]
Festuca Myurus, $L$.
Equisetum Moorii, Neum.
Pseudathyrium alpestre, Nexcm.
? P. flexile, Newm.
? Aspleniuu acutum, Bory.
[Gymnogramma leptophylla, Desv.]
? [Botrychium rutaceum, $S w$.]
? [Ophioglossum lusitanicum, L.]

Species omitted in the the edition.

Thalictrum majus.
Rubus calvatus.
I. firseus.
R. Wahlbergii.

Hicracium atratum.

Hieracium anglicum.
[II. oreades.]
II. dorrense.

Salix IIelix.
S. Forbyana.

Trees and their Nature, or the Bud and its Attributes. By Alex. Harvey, A.M., M.D. Se. London, 1856.
This is an amusing little volume, displaying a great deal of acuteness, and the results of very careful reading within a limited sphere. The object of the work is the discussion of the vexed question of
indiriductit! in plants, and the advocacy of the claim of the bud to the dignity of the "regetable imbividual.' So far as inquiries of this sort tend to direct attention to the physiological laws ruling the growth and multiplication of plants, they are beneficial; but as regards the main question it appears to us only a metaphysical puzzle, calculated to afford much anmsement to those whose taste lies that way, but having no practical bearing. The meaning of the word 'individnal' must always depend on foregone eonelusions. It seems to us that the author is not elear in distingnishing potentiulity from actuality. When a botanist speaks of the ammal layers of wood of the stenns of Dicotyledons as 'routs,' the term can only be almitted in a figurative sense. A bul may be capable of producing a distiuct tree, but if it be not detached, it becomes an indicidual branch, not an indicidual tree. Our author does not appear to be aware, either, that roots as well as stems originate in definitely organized 'buds,' formed in the cambium region. The work is agreeably written, and its perusal may serve as a pleasant intellectual exercise, but it must not be aceepted by any means as a full exposition of the question.

## PROCEEDINGS OF LEARNED SOCIETIES.

## ZOOLOGICAL SOCIETY.

> July 10, 1855.-John Gould, Esq., F.R.S., in the Chair.

On the Geograpifical distrimution of the Mammalia and Binds of the Himalaya.
By B. II. JIodgson, Esa.*
"The Ilimilayan mountains extend from the great bend of the ludus to the great bend of the Brahmapnitra, or from Gilgit to Brahma Kind, between which their length is 1800 miles. Their mean breadth is abont 90 miles; the maximum about 110, and the minimmin 50 miles. The mean breadth of 90 miles may be most conveniently divided into three equal portions, each of which will therefore have 36 ) miles of extent. These transverse climatic divisinus must be, of course, more or less arlitrary, and a microscopic vision woukd be disposed to inerease them eonsiderably beyond three, with reference to geological, to botanical, or to zoological phenomena. But, upon comparing Captain IIerbert's distribution of geological |hechomena with my own of zoological, and I)r. Hooker's of botanical, I anl satisfied that three are enough. These regions I have denominated the lower, the middle, and the upper. They extend from the external margin of the Tarai to the ghat line of the snows. The lower region may be conveniently divided into-I. The sandstone range, with its contained Dhins or Máris; 11. The Bháver or Saul lorest; 1II. The Tarai. The other two regions require ur

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[^0]:    * Extracted from a menmir by the same author, entitlerl, "On the l'bysical Geography of the llimalaya," and puinted in the Journal As. Soc. Bengal for 1849, ly Frederic Moore.

